

## Cold Chamber Specifications

Specifications	Unit	QDCC100	QDCC160	QDCC280	QDCC400	QDCC630	QDCC800	QDCC1250	QDCC1600	QDCC2000																		
<b>Clamping Unit</b>																												
Clamping Force	kN	1000	1600	2800	4000	6300	8000	12500	16000	20000																		
	US ton	112	180	313	448	706	896	1400	1792	2240																		
Clamping Stroke	mm	300	380	460	550	650	760	1000	1000	1300																		
	inch	11.8	14.9	18.1	21.6	25.5	29.9	39.3	39.3	51.1																		
Ejector Force	kN	80	108	150	180	315	315	570	570	630																		
	US ton	9	12	17	20	35	35	64	64	71																		
Ejector Stroke	mm	60	85	105	125	150	180	200	250	280																		
	inch	2.3	3.3	4.1	4.9	5.9	7.0	7.8	9.8	11.0																		
Die Height (Min - Max)	mm	150 - 450	200 - 550	250 - 650	300 - 700	350 - 850	400 - 950	450 - 1180	500 - 1400	650 - 1500																		
	inch	5.9 - 17.7	7.8 - 21.6	9.8 - 25.5	11.8 - 27.5	13.7 - 33.4	15.7 - 37.4	17.7 - 46.4	19.6 - 55.1	25.5 - 59.0																		
Platen Size (H x W)	mm	587 x 584	684 x 680	860 x 860	960 x 970	1200 x 1200	1395 x 1400	1740 x 1730	1890 x 2010	2100 x 2100																		
	inch	23.1 x 22.9	26.9 x 26.7	33.8 x 33.8	37.8 x 38.1	47.2 x 47.2	54.9 x 55.1	68.5 x 68.1	74.4 x 79.1	82.6 x 82.6																		
Tie Bar Diameter	mm	70	85	110	130	160	180	230	250	280																		
	inch	2.7	3.3	4.3	5.1	6.3	7.0	9.0	9.8	11.0																		
Space Between Tie Bars	mm	384 x 384	460 x 460	560 x 560	620 x 620	750 x 750	910 x 910	1100 x 1100	1180 x 1180	1350 x 1350																		
	inch	15.1 x 15.1	18.1 x 18.1	22.0 x 22.0	24.4 x 24.4	29.5 x 29.5	35.8 x 35.8	43.3 x 43.3	46.4 x 46.4	53.1 x 53.1																		
<b>Casting Unit</b>																												
Shot Position (0 = Center)	mm	0	-120	0	-70	-140	0	-125	0	-175	0	-250	0	-250	-160	-320	-175	-350	-40	-245	-450							
	inch	0	-4.7	0	-2.7	-5.5	0	-4.9	0	-6.8	0	-9.8	0	-9.8	-6.3	-12.6	-6.8	-13.7	-1.5	-9.6	-17.7							
Intensification Force	kN	140	254	315	405	610	665	1075	1285	1500																		
	US ton	16	28	35	45	68	74	120	144	168																		
Casting Stroke	mm	280	340	400	500	600	760	880	930	960																		
	inch	11.0	13.3	15.7	19.6	23.6	29.9	34.6	36.6	37.8																		
Injection Plunger Penetration	mm	100	135	140	200	250	297	320	360	400																		
	inch	3.9	5.3	5.5	7.8	9.8	11.6	12.6	14.1	15.7																		
Injection Plunger Diameter	mm	40	50	50	60	50	60	70	60	70	80	70	80	90	80	90	100	100	120	130	140	120	130	140	150	130	150	175
	inch	1.5	1.9	1.9	2.3	1.9	2.3	2.7	2.3	2.7	3.1	2.7	3.1	3.5	3.1	3.5	3.9	3.9	4.7	5.1	5.5	4.7	5.1	5.5	5.9	5.1	5.9	6.8
Shot Weight (Al)	kg	0.65	1.0	1.2	1.8	1.4	2.1	2.8	2.6	3.6	4.7	4.3	5.6	7.1	7.1	9.0	11.2	13.0	18.6	22.0	25.4	19.0	23.0	26.0	30.0	24.0	32.0	43.0
	lbs	1.4	2.2	2.6	4.0	3.1	4.6	6.2	5.7	7.9	10.3	9.5	12.3	15.6	15.6	19.8	24.6	28.6	40.9	48.4	55.9	41.8	50.6	57.2	66.0	52.8	70.4	94.6
Casting Pressure (with Intensification)	MPa	111	71	129	90	160	111	81	143	105	80	158	121	96	132	104	84	136	95	81	69	113	96	83	72	113	84	62
	kpsi	16.1	10.3	18.7	13.1	23.2	16.1	11.7	20.7	15.2	11.6	22.9	17.5	13.9	19.1	15.1	12.2	19.8	13.8	11.7	10.0	16.4	13.9	12.0	10.4	16.4	12.2	9.0
Casting Area	cm <sup>2</sup>	90	140	123	178	174	251	342	279	380	496	397	519	657	604	765	944	913	1315	1543	1789	1408	1652	1916	2200	1770	2356	3207
	inch <sup>2</sup>	14.0	21.7	19.1	27.6	27.0	38.9	53.0	43.2	58.9	76.9	61.5	80.4	102	93.6	119	146	142	204	239	277	218	256	297	341	274	365	497
Maximum Casting Area (40 Mpa)	cm <sup>2</sup>	250	400	700	1000	1575	2000	3125	4000	5000																		
	inch <sup>2</sup>	38.8	62.0	108.5	155.0	244.1	310.0	484.4	620.0	775.0																		
Diameter of Shot Sleeve Flange	mm	90	102	102	102	165	200	240	240	260																		
	inch	3.5	4.0	4.0	4.0	6.5	7.8	9.4	9.4	10.2																		
Height of Shot Sleeve Flange	mm	10	12	12	12	15	20	25	25	30																		
	inch	0.3	0.4	0.4	0.4	0.5	0.7	0.9	0.9	1.1																		
<b>Others</b>																												
Hydraulic Working Pressure	MPa	14	14	14	14	14	14	14	14	14																		
	psi	2030	2030	2030	2030	2030	2030	2030	2030	2030																		
Hydraulic Oil Tank Capacity	litre	300	400	600	800	1000	1200	2500	2600	2800																		
	gal	79	106	159	212	265	318	662	689	742																		
Driving Motor Power	KW	11	15	18.75	22.5	37.5	37.5	37.5 x 2	45 x 2	50 x 2																		
	Hp	14.7	20	25	30	50	50	50 x 2	60 x 2	66.7 x 2																		
Machine Weight	kg	3,600	6,300	11,000	16,000	27,600	40,000	90,000	95,000	105,000																		
	lbs	7,920	13,860	24,200	35,200	60,720	88,000	198,000	209,000	231,000																		
Machine Dimensions (L x W x H)	m	4.5 x 1.2 x 2.2	5.6 x 1.4 x 2.7	6.4 x 1.4 x 2.7	6.8 x 1.6 x 2.7	7.5 x 2.0 x 2.9	8.7 x 2.1 x 2.9	10.8 x 3.3 x 4.2	12.0 x 3.0 x 4.0	15.0 x 4.5 x 5.0																		
	ft	14.8 x 3.9 x 7.2	18.4 x 4.6 x 8.7	21.0 x 4.6 x 8.7	22.3 x 5.3 x 8.7	24.6 x 6.6 x 9.4	28.5 x 6.9 x 9.4	35.4 x 10.8 x 13.8	39.4 x 9.9 x 13.1	49.2 x 14.8 x 16.4																		